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Transmitted herewith for filing under 37 CFR 1.53(b) is a(n): ☒ Utility ☐ Design☒ original patent application,☐ continuation-in-part application

INVENTOR(S): Steve Mattis et al

TITLE: Method And Apparatus For Redirection Of Data When Electronic Mail Is Restricted

Enclosed are:

- ☒ The Declaration and Power of Attorney. ☒ signed ☐ unsigned or partially signed
☒ 9 sheets of drawings (one set) ☐ Associate Power of Attorney
☐ Form PTO-1449 ☐ Information Disclosure Statement and Form PTO-1449
☐ Priority document(s) ☐ (Other) (fee \$)

CLAIMS AS FILED BY OTHER THAN A SMALL ENTITY				
(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) TOTALS
TOTAL CLAIMS	20 — 20	0	X \$18	\$ 0
INDEPENDENT CLAIMS	4 — 3	1	X \$78	\$ 78
ANY MULTIPLE DEPENDENT CLAIMS	0		\$260	\$ 0
BASIC FEE: Design \$310.00); Utility \$690.00)				\$ 690
TOTAL FILING FEE				\$ 768
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TOTAL CHARGES TO DEPOSIT ACCOUNT				\$ 768

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By Dianna Baker
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Respectfully submitted,

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**PATENT APPLICATION
DOCKET NO. 10001761-1**

**METHOD AND APPARATUS FOR REDIRECTION OF DATA WHEN
ELECTRONIC MAIL IS RESTRICTED**

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METHOD AND APPARATUS FOR REDIRECTION OF DATA WHEN ELECTRONIC MAIL IS RESTRICTED

FIELD OF THE INVENTION

The present invention relates generally to computer networks, more specifically to internet data communications, and particularly to the automatic redirection of a digital send to a web page when sending through electronic mail channels becomes restricted.

BACKGROUND OF THE INVENTION

Glossary

The following terms and acronyms are used throughout this document; these definitions are provided for the convenience of the reader; however, no limitation on the scope of the invention should be implied herefrom.

"Client-Server": A model of interaction in a distributed computer network system in which a program at one site sends a request to another site and then waits for a response. The requesting program is called the "client," and the program which responds to the request is called the "server." In the context of the World Wide Web ("www" or "web;" defined hereinafter), the client is a "browser;" a program which runs on a computer of an end-user. A program and network computer which responds to a browser request by serving web pages and the like, are referred to as a "server." Specialized servers, such as dedicated electronic mail (defined hereinafter) servers are also known in the art.

"Electronic Mail" ("e-mail"): The process and software for sending and receiving of textual information and attachments thereto between end-users over a distributed computer network such as the internet; internet access providers often include e-mail service to its customers as part of the access software that allows the end user to dial into the internet.

"Hyperlink": An internet navigational link from one document or web page to another, or from one portion or component of a document or web page to another. Typically, a hyperlink is displayed as a high-lighted word or

phrase on a web page that can be selected by clicking a mouse screen pointer thereon, resulting in an automatic transfer to the associated document or portion.

"Hypertext System": A computer-based informational system in which documents or other types of data, are linked together via hyperlinks to form a user-navigable web of network or internet sites.

"Internet": A generic term for a collection of distributed, interconnected networks (ARPANET, DARPANET, World Wide Web, or the like) that are linked together by a set of industry standard protocols (e.g., TCP/IP, HTTP (defined hereinafter), and the like) to form a global, distributed network.

"Header": A data string defining the attributes such as size, data format, and the like, of an attached message.

"Hypertext Mark-up Language" ("HTML"): A standard coding convention and set of codes for attaching presentation and linking attributes to informational content within documents; the primary standard used for generating web documents. During a document authoring stage, the HTML codes (referred to as "tags") are embedded within the informational content of the document; when the document is subsequently transferred from a server to a client, the codes are interpreted by the browser and used to parse and display the document. In specifying how the browser is to display the document, HTML tags can be used to create hyperlinks to other web documents.

"HyperText Transport Protocol" ("HTTP"): The standard www client-server protocol used for the exchange of information such as HTML documents and client requests for such documents between a browser and the server. HTTP includes a number of different types of messages which can be sent from the client to the server to request different types of server actions. For example, a "get" message which has the format GET <URL> (defined hereinafter) causes the server to return the document or file located at the specified URL.

"PULL": A technology, commonly used as the basis for web communications, in which the client browser must request a specific web page, such as by a hyperlink, before it is sent by a server.

"PUSH": A technology for information dissemination used by a server to send data to users over a network. PUSH protocols send the informational content to the end user computer, or client, automatically, typically based on information pre-specified by the user.

5 "Uniform Resource Locator" ("URL"): A unique address which fully specifies the location of a file or other resource on the internet. The general format of a URL is "protocol://machine address:port/path/filename." The port specification is optional, and if none is entered by the user, the browser defaults to the standard port for whatever service is specified as the
10 protocol. For example, if HTTP is specified as the protocol, the browser will use the HTTP default port; <HTTP://WWW.HP.COM> is a URL, where postfix ".COM" is a commercial entity, ".EDU" is an educational entity, ".GOV" is a government entity, and ".ORG" is a non-profit organization. Hyperlinks are often URL designations.

15 "Simple Mail Transfer Protocol" ("SMTP"): A standard protocol which provides the mechanism for sending e-mail messages; an electronic mail Server can use SMTP to forward messages.

"Web Site": A computer system that serves informational content over a network using the standard protocols of the web. Typically, a web site
20 corresponds to a particular internet domain name, such as HP.COM", and includes the content associated with a particular organization such as Hewlett-Packard Company. The term is generally intended to encompass both (1) the hardware/software server components that serve the informational content over the network, and (2) the "back-end" hardware-software components, including
25 any non-standard or specialized components that interact with the server component to perform service for web site users.

"World Wide Web ("web")": Refers generally to both (1) a distributed collection of interlinked, user-viewable hypertext documents ("web documents" or "web pages") that are accessible via the internet, and (2) the
30 client and server software components which provide user access to such documents using standardized internet protocols. Currently, the primary standard protocol for allowing applications to locate and acquire web documents

is HTTP, and the web pages are encoded using HTML. However, the terms "web" and "world wide web" as used herein are intended to encompass future mark-up languages and transport protocols which may be used.

Description of Related Art

5 The inter-computer communications system known as the internet and world wide web have become a ubiquitous reality more quickly than most previous technology innovations.

 E-mail products, e.g., Microsofttm Exchange Server 5.5 software, run on dedicated mail servers, e.g., the HPtm E60 NetServer computer, are
10 commercially available. In order to control e-mail traffic, many e-mail servers limit the size of e-mail text "messages" or messages and attachments in the form of digital files that can be sent intact, making it problematic to send via e-mail very "large documents" (i.e., an entire informational content data set including text messages, attachments, and the like). Generally in the state of
15 the art a system administrator will set a specified limit for the data set file size about one megabyte as a threshold for allowing unrestricted e-mail transmission. A document is limited to the smallest unit encountered or the message is partitioned. (Hereinafter, the term "LARGE DOCUMENT" is used to mean any message or document which exceeds an e-mail server specified content limit; no
20 limitation on the scope of the invention is intended nor should any be implied from other uses or conventions for this term.)

 Image content files, such as photographs, are often much larger than such a specified limit, thus constituting a LARGE DOCUMENT. Similarly, color documents have embedded code for specifying each picture element
25 ("pixel"), in other words, more data per pixel, and thus greatly increase a document data set complete file size. When a server encounters a message having a header indicating that the message or the message and its attachments exceeds the specified limit, the document is either broken into smaller messages or rejected, issuing an error report. Either action results in a substantial
30 transmission delay for the sender and often frustration for the recipient trying to download the files. At the same time, e-mail, including the process of attaching

and sending other files such as photographs with the e-mail text, is a popular, simple communication tool.

Similarly problematical, when e-mail messages are addressed by the client to many recipients on different systems simultaneously, e-mail servers create multiple copies of the document and then separately distribute the copies. This is a memory, disk space, intensive procedure, also delaying distribution. Moreover, the latest office tool is the "digital sender," a module that can be used with a document scanning apparatus having an automatic document feeder ("ADF") associated therewith or a hard copy printing apparatus. The HP™ model 8100C or 9100C digital sender apparatus can be employed with a multifunctional computer peripheral ("MFP"), such as the HP™ model C7819A digital sender appliance for an LaserJet™ MFP which includes a laser printer, scanner-copier, and the digital sender, thus having the capability to transmit copies of LARGE DOCUMENTS to a plurality of clients simultaneously, to another LAN (via a network server), to computers, to a fax machine, or the client receivers sitting on the LAN. The digital sender includes options to transfer the copies via facsimile transmission or via e-mail by providing a control panel employing an e-mail addressing user interface.

FIGURE 1 (Prior Art) is a drawing of the HP Digital sender. From the end user's point of view, operation is similar to a facsimile machine transmission; from an information technology ("IT") standpoint, administration may be more complex as the data content is sent over a digital network such as a local area network ("LAN"), wide area network ("WAN"), or the like.

FIGURES 1B-1F (Prior Art) show details of the LCD user control panel. An importable, programmable address book feature allows for simultaneous distribution to every addressee in the book.

Thus, either sending LARGE DOCUMENTs or sending documents to many recipients may overly tax the capability of an e-mail server.

One prior solution is to have the digital sending device always break image documents apart at physical or logical page boundaries. This is

slow and inconvenient for the end-users. An even less acceptable solution is for the sender himself or herself to break the document into multiple send jobs before trying to transmit.

5 There is a need for an automatic, user-transparent solution to the problem of sending large data files when the end user is using an e-mail program.

SUMMARY OF THE INVENTION

10 In a basic aspect, the present invention provides process for transmitting a data set over a computer network, including the steps of: predetermining a data set size threshold; determining a data set size; and if said data set size is less than said threshold, transmitting via electronic mail, or if said data set size is greater than said threshold, transmitting to a data storage site.

15 In another aspect, the present invention provides a system for transmitting data sets over a network including: at least one digital sender coupled to the network, having a plurality of computing devices thereon, said computing devices each having electronic mail and computer network navigation tools; and mechanisms for routing data sets over the network, including mechanisms for determining size of a data set to be routed to a predetermined
20 electronic mail destination, mechanisms for comparing a determined data set size to a threshold, mechanisms for rerouting the data set from electronic mail to a data storage site when said determined data set size is greater than said threshold, and mechanisms for substituting an electronic mail message, including a link to the data site, to the predetermined electronic mail destination
25 when said determined data set size is greater than said threshold.

In another aspect, the present invention provides a multifunctional peripheral apparatus for a computer network, including: a document digitizing subsystem; connected to the document digitizing device, a sending module for transmitting a data set created with the document digitizing device; and
30 associated with the sending module, a routing subsystem for determining if a data set is to be transmitted via electronic mail or via a data storage unit.

In yet another aspect, the present invention provides a computer memory including: a program for routing data sets over a computer networking, including computer readable coded instructions for predetermining a data set size threshold; computer readable coded instructions for determining a data set size; and if said data set size is less than said threshold, computer readable coded instructions for transmitting via electronic mail, or if said data set size is greater than said threshold, computer readable coded instructions transmitting via a data storage site.

Some of the advantages of the present invention are:

it provides an e-mail user with system behavior exactly as expected when sending typical e-mail messages;

it provides transparent, automatic, system alteration when a LARGE DOCUMENT exceeds server specified data file size limits for e-mail handling;

it provides a methodology by which a recipient always receives a LARGE DOCUMENT intact;

the average cost of sending a LARGE DOCUMENT could be significantly reduced by not sending the largest or most widely distributed document through a plurality of e-mail servers;

it provides the recipient with a choice for downloading a LARGE DOCUMENT;

remote end-user recipients can access web located LARGE DOCUMENTs with any browser and eliminate having to download from their e-mail provider; and

environments commonly using complex, LARGE DOCUMENTs are provided with simpler operations and greater confidence in digital sending.

The foregoing summary and list of advantages is not intended by the inventors to be an inclusive list of all the aspects, objects, advantages and features of the present invention nor should any limitation on the scope of the invention be implied therefrom. This Summary is provided in accordance with the mandate of 37 C.F.R. 1.73 and M.P.E.P. 608.01(d) merely to apprise the public, and more especially those interested in the particular art to which the

invention relates, of the nature of the invention in order to be of assistance in
aiding ready understanding of the patent in future searches. Other objects,
features and advantages of the present invention will become apparent upon
consideration of the following explanation and the accompanying drawings, in
5 which like reference designations represent like features throughout the
drawings.

DESCRIPTION OF THE DRAWINGS

FIGURE 1 (Prior Art) is a perspective view of a digital sender
10 module.

FIGURES 1A-1F are detail illustrations of exemplary control panels
for the digital sender module as shown in FIGURE 1.

FIGURE 2 is a schematic drawing of an exemplary network system
in accordance with the present invention.

15 FIGURES 3A through 3D are a flow chart of the process in
accordance with the present invention.

FIGURE 4 is an exemplary e-mail message generated during the
process as shown in FIGURES 3A and 3C.

The drawings referred to in this specification should be understood
20 as not being drawn to scale except if specifically annotated.

DETAILED DESCRIPTION OF THE INVENTION

Reference is made now in detail to a specific embodiment of the
present invention, which illustrates the best mode presently contemplated by
the inventors for practicing the invention. Alternative embodiments are also
25 briefly described as applicable.

Referring to FIGURE 2 - an exemplary network implementation - a
client or plurality of client stations is on LAN, represented by the line labeled
"TCP/IP Network" which includes a plurality of MFP's 101, 102 including digital
sender 100 units, and a plurality of workstations 103, 104, and at least one
30 server 105. An e-mail software module for the SMTP standard is shown on the
server 105; note that other internet e-mail standards as may be adopted can be

employed The server 105 for this example also includes digital sender software (digital sender module or "DSM") shown as a box labeled "DSM" and other programs for running the TCP/IP Network communications. For this exemplary embodiment, the programmed process in accordance with the present invention is shown as a box labeled "REROUTER" 109. It should also be noted that in the alternative, the digital sender as a standalone apparatus 101, 102 could serve as a network server in and of itself and employ the process of the present invention; and, each workstation 103, 104 can in fact be a personal computer with the appropriate e-mail software on its hard drive. The TCP/IP Network is coupled to the public internet or world wide web shown as element 106 and simply referred to hereinafter as "the internet 106" or "the web 106."

The REROUTER module 109 process in accordance with the present invention is shown in FIGURES 3A-3D. The REROUTER module 109 can be implemented as computer readable, digital code instructions. FIGURE 3A is the basic methodology for the process 300, added to the e-mail process on-board the server 105 or, if so configured, on-board the MFP-based DSM itself. The Digital sender 100 starts the data flow, step 301, receiving and formatting a data set, or document, to be transmitted, step 303. The DSM REROUTER module ("DSMR") 109 is supplied by the system administrator with the knowledge of a predetermined threshold, e.g., 2-Mbytes, for the net server 105 transmitting a document intact as a regular, single, e-mail transmission. The DSMR 109 tests the document to determine if it is a LARGE DOCUMENT, step 305; further detail of step 305 decision as to whether the document is greater than the threshold, constituting a "LARGE DOCUMENT," is shown in FIGURE 3B, via any known manner decision algorithm. Effectively, the system administrator can set a document threshold, e.g. 1-Mbyte. If such a threshold in fact is set, step 305A, YES-PATH, then the actual size of the next document to be sent is determined, step 305B, and compared to the threshold, step 305C, and the decision routed accordingly, steps 305D or 305E.

Assume for the moment that the document is a LARGE DOCUMENT, viz., greater than the system administrator's predetermined threshold for e-mail documents, step 305-NO path. Since the LARGE

DOCUMENT can not be sent intact over the threshold restricted e-mail channel, the DSMR reformats certain content of the LARGE DOCUMENT and reroutes it, step 307. Further detail of step 307 is shown in FIGURE 3C. In accordance with the present invention, the LARGE DOCUMENT is directed to a web site for temporary storage intact. Thus, in order to do so, the DSMR 109 now must make the LARGE DOCUMENT and make it compatible with web sites which, as noted in the Background section above, use different protocols for formatting and locating information data set.

First, the LARGE DOCUMENT is provided with HTML coding, attaching presentation and linking attributes to informational content within the LARGE DOCUMENT, step 401. This is known as providing an HTML "Wrapper."

Next, step 403, the LARGE DOCUMENT and its Wrapper are copied to a predetermined directory, namely, a web site. The web site can be any manner of virtual courier service, e.g., United Parcel Service's commercially available web site at <http://www.ups.com>, or a virtual document escrow service, or virtual document storage site set up by the sending or receiving LAN themselves, or the like as would be known in the state of the art, represented in FIGURE 2 simply as on-line storage 107.

Next, step 405, the DSMR 109 embeds a URL in an e-mail message which is substituted for the LARGE DOCUMENT.

Next, step 407, the e-mail message is sent to all intended recipients. An exemplary e-mail message as might be received by each recipient is shown in FIGURE 4. In this example, the URL is "<http://architect.com>."

Clicking on the URL will cause the recipient's workstation to transfer to the web site and, assuming the recipient has Microsoft[™] PowerPoint Show[™] software, the LARGE DOCUMENT will open automatically or upon command selected from the browser program. The DSMR process for this LARGE DOCUMENT is essentially done, step 309.

Returning to FIGURE 3A, as noted earlier, a transmission may constitute more than one recipient so that the document may be within the

threshold, but the "job" may exceed the predetermined job threshold for e-mail, where

total transmission data set ("TTDS") = (document size x no. of recipients),

5 where document size and threshold values are in standard units such as bytes
Mbytes, Gbytes, etc., as current to the state of the art. Therefore, a second
test, step 311, is required if it is determined that the document is within the
threshold for direct e-mail transmission, step 305, YES-path. The details of step
311 are shown in FIGURE 3D. If the threshold is essentially unlimited, step
10 501, NO-path, the job is determined as being within the threshold, step 503,
and the job is approved, step 311, YES-path, and sent to each recipient via
normal e-mail, step 313, FIGURE 3A. Assuming there is a predetermined job
threshold, step 501, YES-path, the document size is determined, step 505, and
the TTDS is calculated, step 507. Next, step 509, a determination is made as
15 to whether the job size is less than the job threshold. If so, step 509, YES-path,
the entire job is approved, step 503, and sent via e-mail, step 313, FIGURE 3A.
The job is essentially done, step 309. If not less than the job threshold, step
509, NO-PATH, the job is so designated, step 511, and rerouted, step 311, NO-
path (FIGURE 3A) to processing and web site delivery, step 307 (FIGURES 3A
20 and 3C).

Thus, the present invention provides a method 300 and apparatus
200 for determining 305-313 if a data set 303 for transmission can be sent
directly via e-mail 313, given predetermined thresholds for sending, or whether
it is more expedient to reroute the data set to a web site 307. Every time a
25 user sends document to e-mail, transparently the size of the document/job is
compared to the thresholds and the system automatically determines the best
available routing, reformatting 401-407 if necessary.

The foregoing description of the preferred embodiment of the
present invention has been presented for purposes of illustration and
30 description. It is not intended to be exhaustive or to limit the invention to the
precise form or to exemplary embodiments disclosed. Obviously, many

CLAIMS

What is claimed is:

1 1. A process for transmitting a data set over a computer
2 network, comprising the steps of:
3 predetermining a data set size threshold;
4 determining a data set size; and
5 if said data set size is less than said threshold, transmitting via
6 electronic mail, or
7 if said data set size is greater than said threshold, transmitting via
8 a data storage site.

1 2. The process as set forth in claim 1, further comprising:
2 predetermining a transmission job set size threshold;
3 determining if said data set is to be transmitted to more than one
4 recipient on said network; and
5 if said data set is to be transmitted to more than one recipient on
6 said network, and if a total transmission data set size is less than said
7 transmission job set size threshold, transmitting via electronic mail, or
8 if said data set is to be transmitted to more than one recipient on
9 said network, and if a total transmission data set size is greater than said
10 transmission job set size threshold, transmitting via said data storage site.

1 3. The process as set forth in claim 2, comprising:
2 total transmission data set size is determined in accordance with
3 the equation:
4 total transmission data set ("TTDS") = (document size x no. of
5 recipients).

1 4. The process as set forth in claim 1, the step of transmitting
2 via said data storage site further comprising:
3 generating an HTML Wrapper for said document.

1 10. The system as set forth in claim 8, the means for routing
2 further comprising:
3 computer coded instruction sets.

1 11. The system as set forth in claim 8, the means for
2 determining size of a data set further comprising:
3 means for calculating a total data set size for sending the data set
4 to a plurality of recipients substantially simultaneously.

1 12. The system as set forth in claim 11, the means for
2 comparing further comprising:
3 determining if the total data set size for sending the data set to a
4 plurality of recipients substantially simultaneously is greater than said threshold.

1 13. The system as set forth in claim 8, comprising:
2 the means for rerouting including means for rerouting the data set
3 to a web site subsequently accessible by using said network navigational tool.

1 14. A multifunctional peripheral apparatus for a computer
2 network, comprising:
3 a document digitizing subsystem;
4 connected to the document digitizing device, a sending module for
5 transmitting a data set created with the document digitizing device; and
6 associated with the sending module, a routing subsystem for
7 determining if a data set is to be transmitted via electronic mail or via a data
8 storage unit.

1 15. The apparatus as set forth in claim 14, the routing
2 subsystem further comprising:
3 computer readable program code for reformatting said data set
4 from electronic mail to a format retrievable using a network navigation program.

1 16. The apparatus as set forth in claim 14, the routing
2 subsystem further comprising:

3 computer readable program code for reformatting said data set
4 from electronic mail to a format retrievable using a browser, and
5 computer readable program code for generating and transmitting
6 an electronic mail message providing a URL for said browser.

1 17. The apparatus as set forth in claim 14, further comprising:
2 a computer adapted for providing said data storage unit accessible
3 via a browser using a hyperlink.

1 18. A computer memory comprising:
2 a program for routing data sets over a computer networking,
3 including
4 computer readable coded instructions for predetermining a data set size
5 threshold;
6 computer readable coded instructions for determining a data set
7 size; and
8 if said data set size is less than said threshold, computer readable
9 coded instructions for transmitting via electronic mail, or
10 if said data set size is greater than said threshold, computer
11 readable coded instructions transmitting via a data storage site.

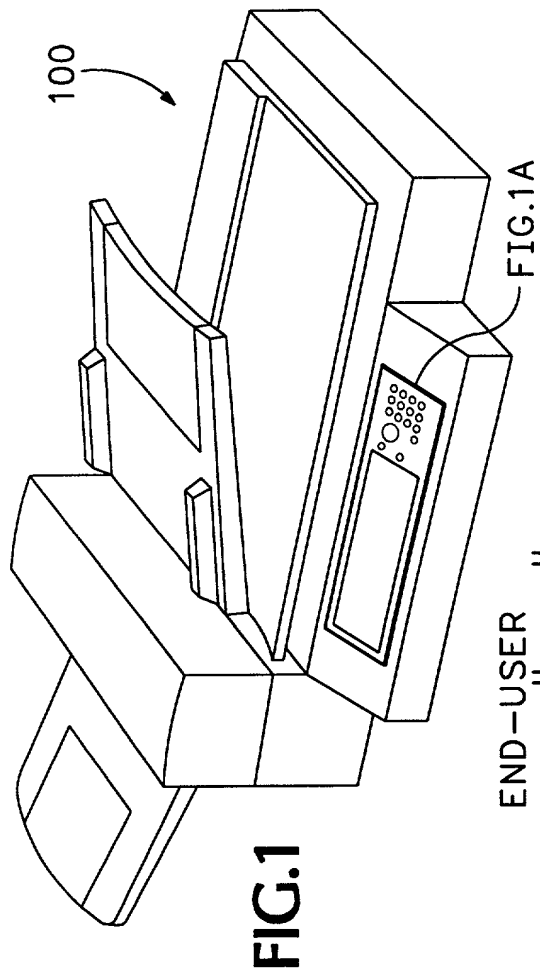
1 19. The memory as set forth in claim 18, further comprising:
2 computer readable coded instructions for predetermining a
3 transmission job set size threshold;
4 computer readable coded instructions for determining if said data
5 set is to be transmitted to more than one recipient on said network; and
6 if said data set is to be transmitted to more than one recipient on
7 said network, and if a total transmission data set size is less than said

8 transmission job set size threshold, computer readable coded instructions for
9 transmitting via electronic mail, or
10 if said data set is to be transmitted to more than one recipient on
11 said network, and if a total transmission data set size is greater less than said
12 transmission job set size threshold, computer readable coded instructions for
13 transmitting via said data storage site.

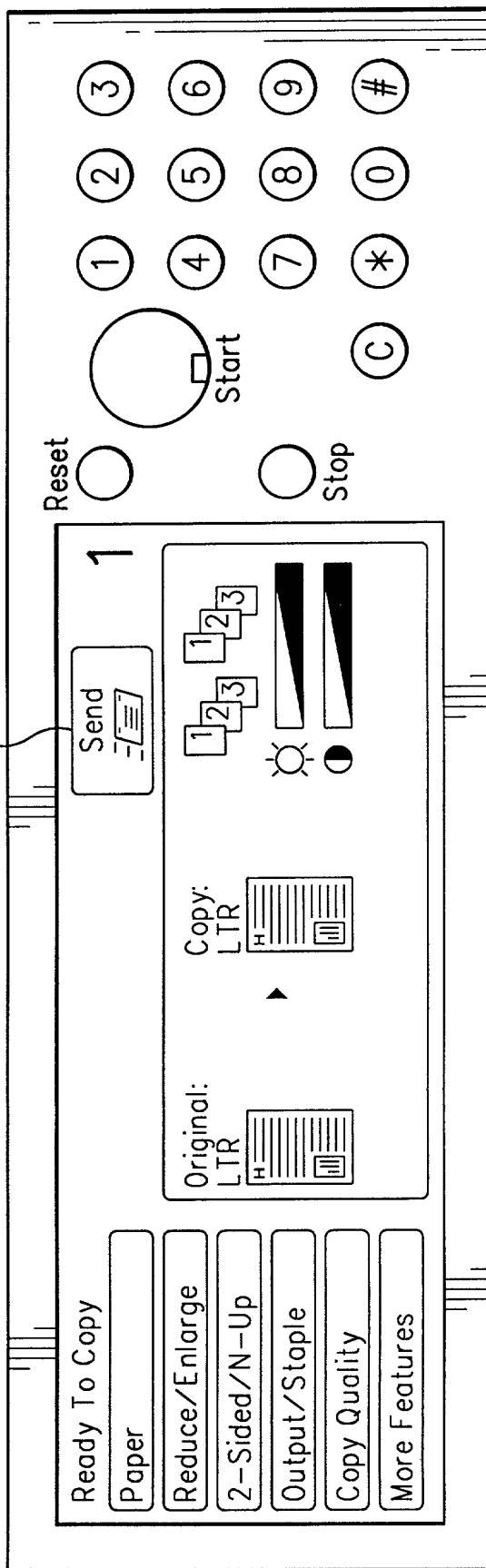
1 20. The memory as set forth in claim 19, the computer readable
2 coded instructions for transmitting via said data storage site further comprising:
3 computer readable coded instructions for generating an HTML
4 Wrapper for said document,
5 computer readable coded instructions for copying the document to
6 said data storage site,
7 computer readable coded instructions for generating an electronic
8 mail message for sending via electronic mail to an intended recipient of the data
9 set, the electronic mail message including a URL to said data storage site, and
10 computer readable coded instructions for sending the electronic
11 mail message including the URL in lieu of sending the data set to the intended
12 recipient.

[illegible]

5 Every time a user sends document to e-mail, transparently the size of the document and job is compared to the thresholds and the system automatically determines the best available routing, reformatting if necessary.



END-USER
PRESSES "SEND"



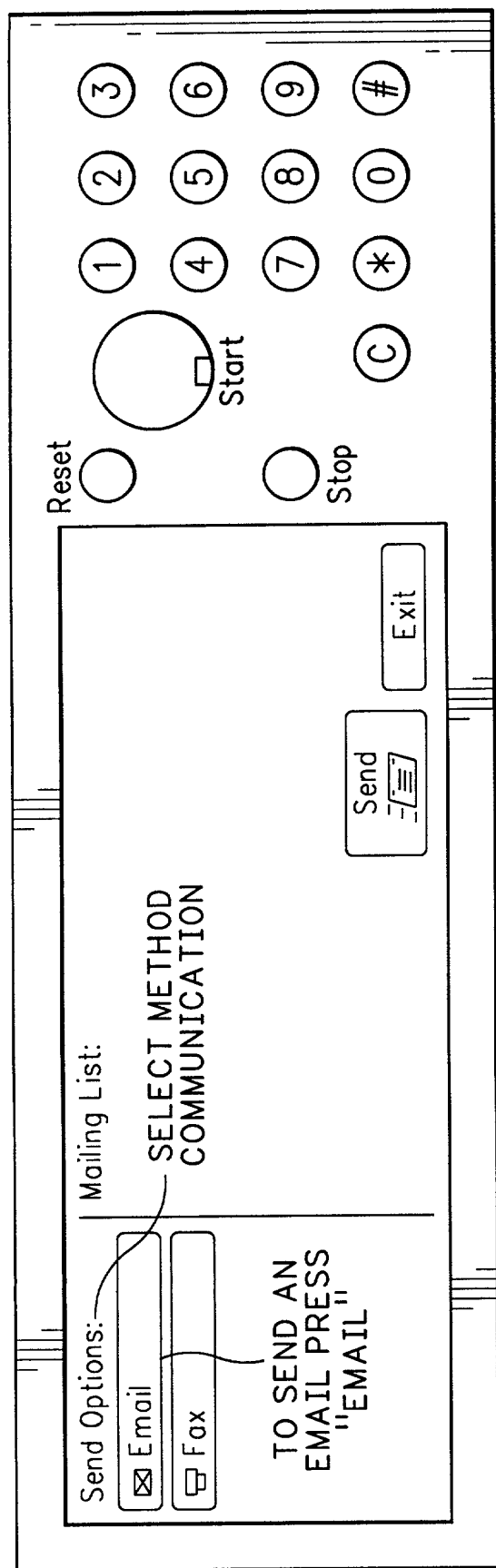


FIG. 1B

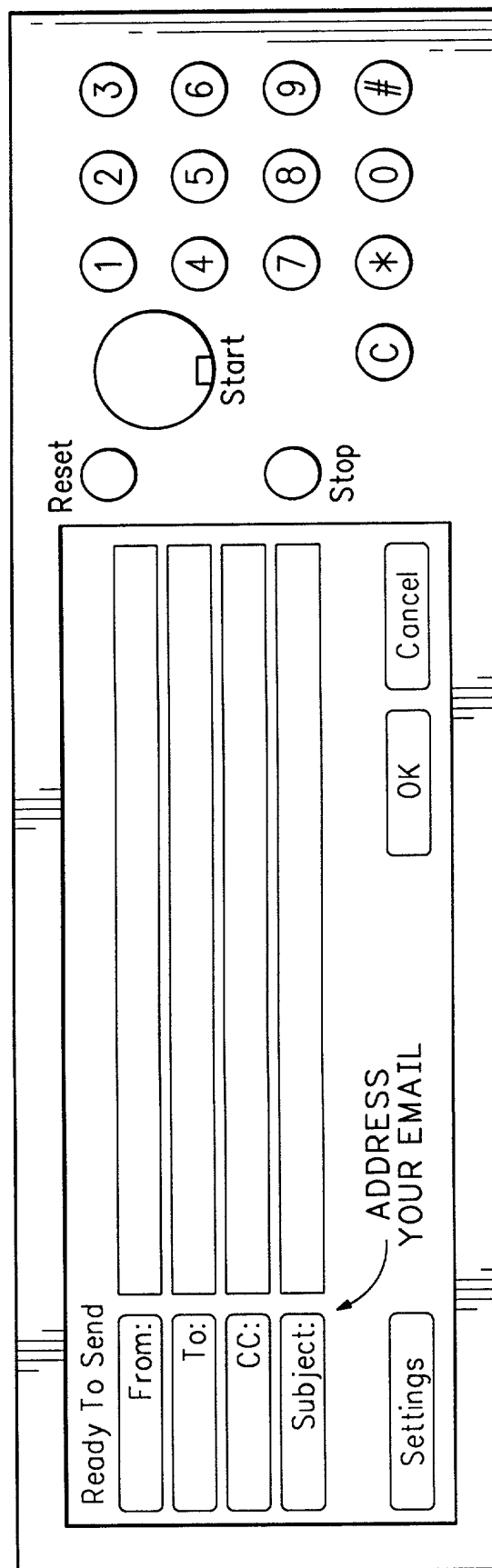


FIG. 1C

COMPLETE THE "FROM"
FIELD FOR NOTIFICATION

The diagram illustrates a computer interface with a keyboard and a numeric keypad. The keyboard features a search bar containing the text "matt:s,steve (hp-boise,ext)". To the right of the search bar are buttons for "Search", "Del", and navigation (left, right, and double arrows). Below the search bar is a numeric keypad with buttons for digits 0-9, *, #, C, and a "Start" button. A "Reset" button is located to the left of the numeric keypad. The keyboard also includes buttons for "Shift", "Alt", "OK", and "Cancel".

FIG. 1D

COMPLETE THE "TO" FIELD

Email To:

FIG. 1E

SET CUSTOM SETTINGS OR UTILIZE DEFAULTS

Document Settings: ☐ EXEL ☐ LTP ☐ 11x17 ☐ A5 ☐ A4 ☐ R3 ☐ B5 ☐ B4

Document Size: ☐ Text ☐ Photo ☐ 2 Sided Document ☐ Enable Flatbed ☐ Job Binding

Resolution:

File Format:

FIG. 1F

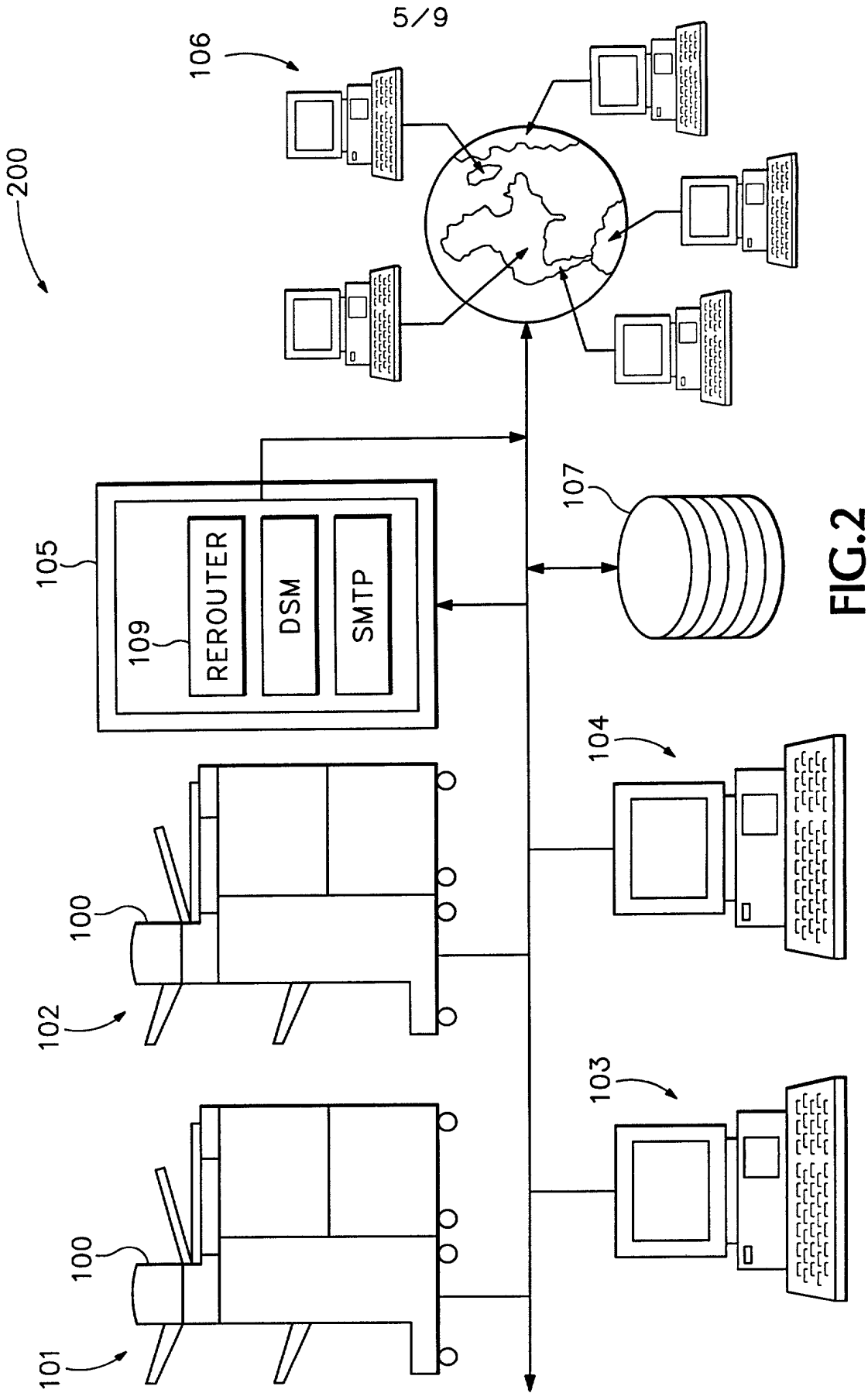
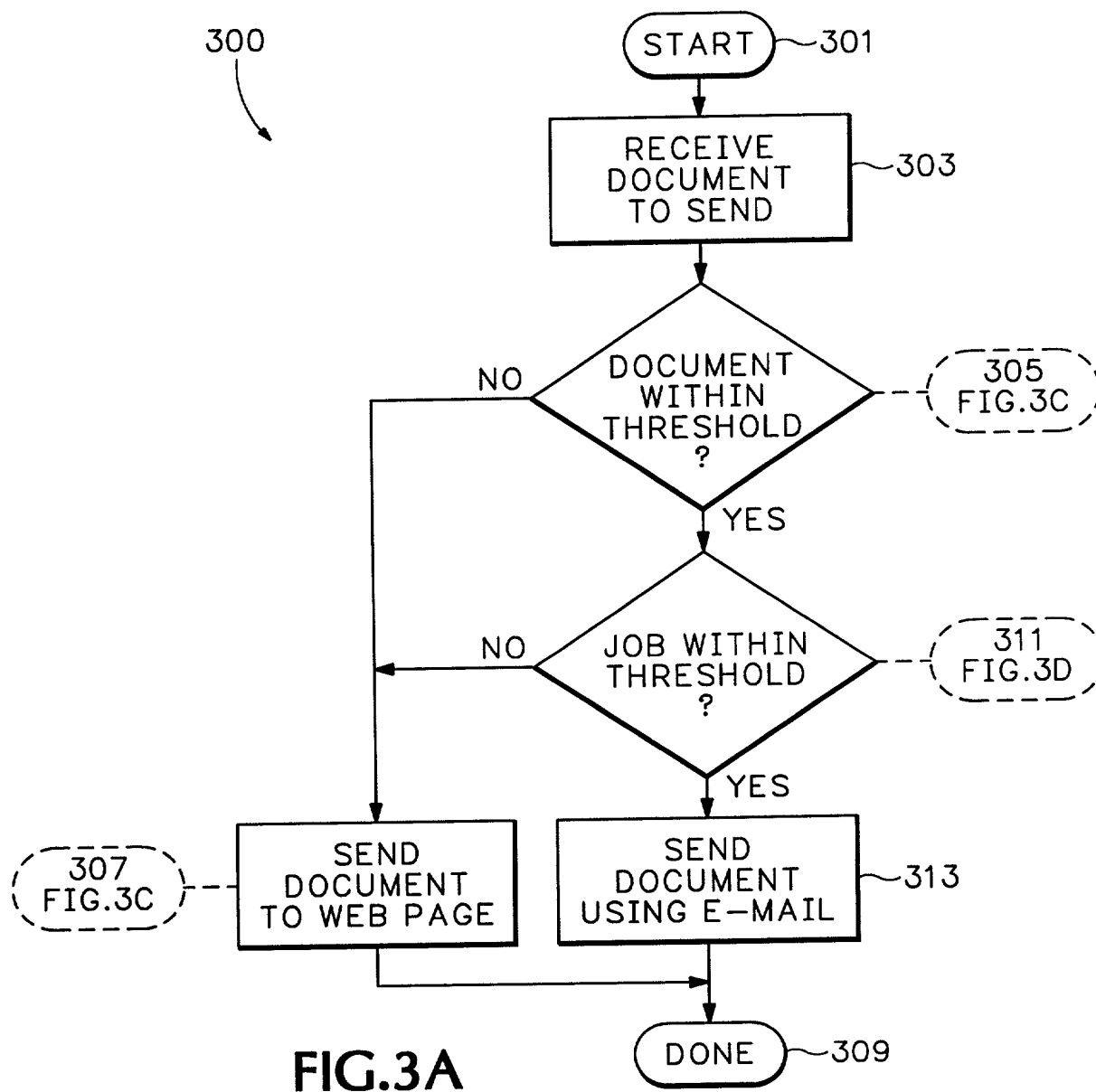
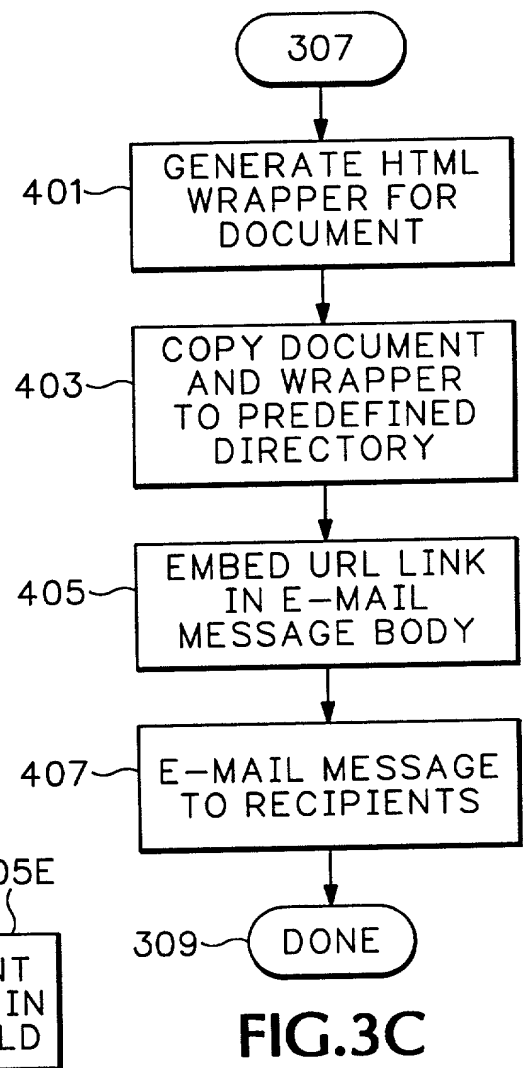
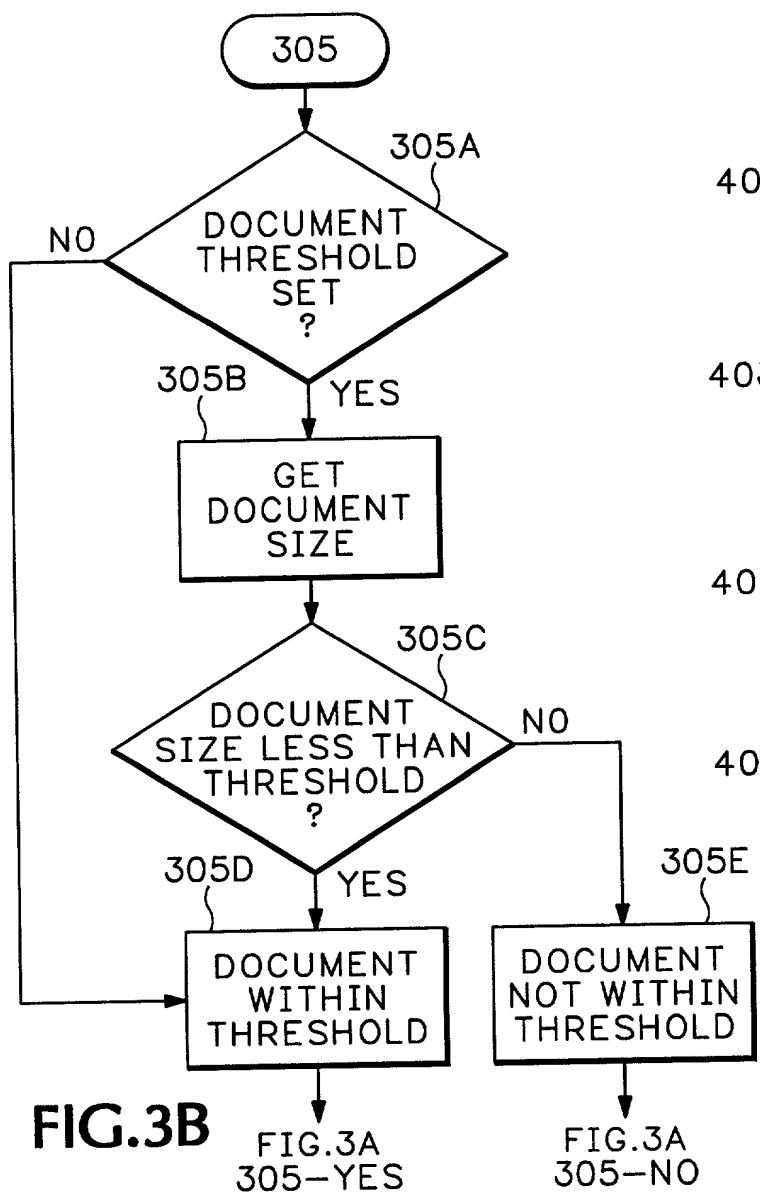
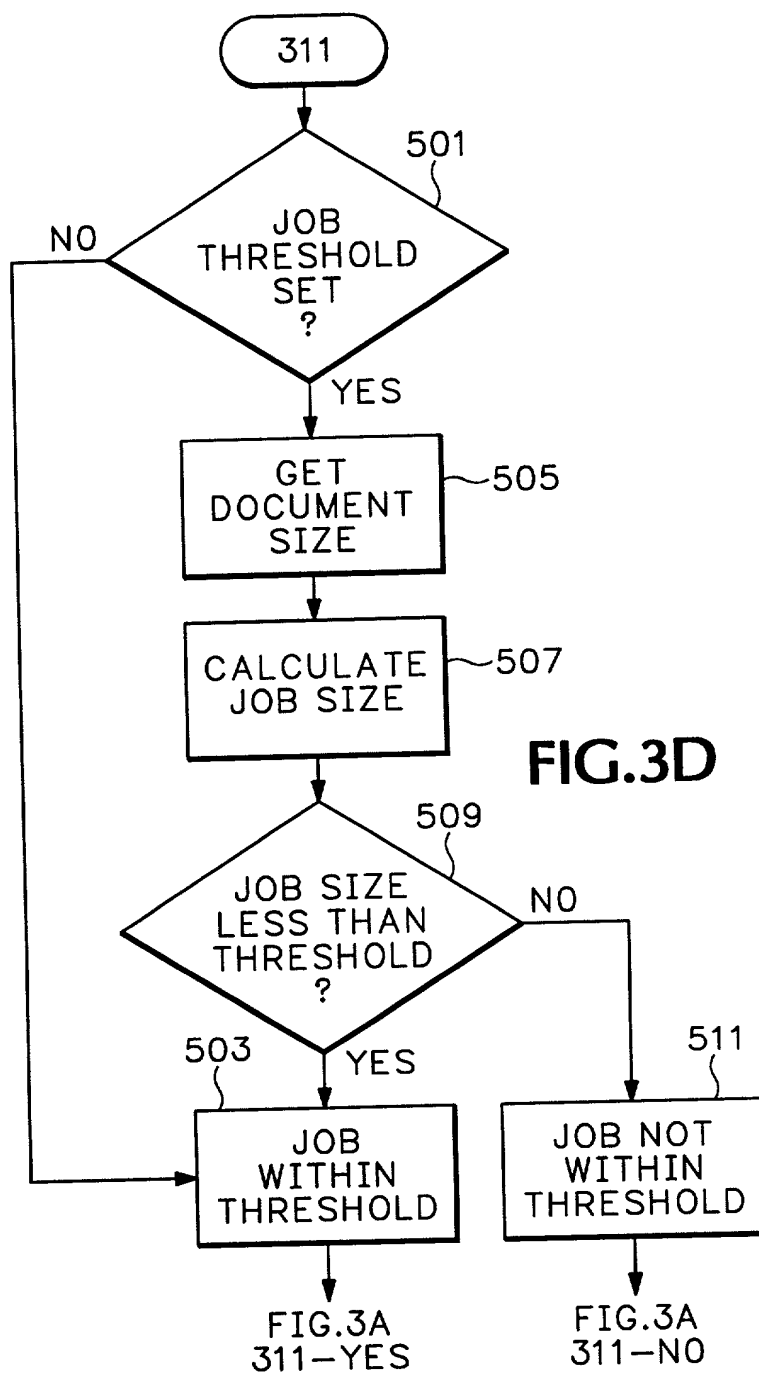


FIG. 2







Subject: Send to Web Patent-High Level Architecture

Date: Fri, 26 May 2000 08:18:01-0600

From: "MATTIS, STEVE (HP-Boise,ex1)" <steve_mattis@hp.com>

To: "Eugene H. Valet (E-mail)" <valetpatents@att.net>

CC: "HALL, JOHN (HP-Boise,ex1)" <john_hall4@hp.com>

Eugene,
Please see attached high level architecture slide of digital sending from a LJ MFP.
Steve Mattis


 http://architect.com	Name: high architecture.ppt Type: Microsoft PowerPoint Show (application/vnd.ms-powerpoint) Encoding: base64
--	---

FIG. 4

DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATIONATTORNEY DOCKET NO. 10001761-1

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Method And Apparatus For Redirection Of Data When Electronic Mail Is Restricted

the specification of which is attached hereto unless the following box is checked:

() was filed on _____ as US Application Serial No. or PCT International Application Number _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understood the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.

Foreign Application(s) and/or Claim of Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code Section 119 of any foreign application(s) for patent or inventor(s) certificate listed below and have also identified below any foreign application for patent or inventor(s) certificate having a filing date before that of the application on which priority is claimed:

COUNTRY	APPLICATION NUMBER	DATE FILED	PRIORITY CLAIMED UNDER 35 U.S.C. 119
			YES: _____ NO: _____
			YES: _____ NO: _____

Provisional Application

I hereby claim the benefit under Title 35, United States Code Section 119(e) of any United States provisional application(s) listed below:

APPLICATION SERIAL NUMBER	FILING DATE

U. S. Priority Claim

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

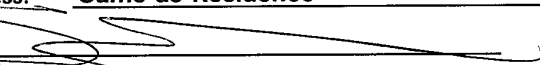
APPLICATION SERIAL NUMBER	FILING DATE	STATUS (patented/pending/abandoned)

POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Customer Number 022879Place Customer
Number Bar Code
Label hereSend Correspondence to:
HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
Fort Collins, Colorado 80528-9599**Direct Telephone Calls To:**Steven R. Ormiston
(208) 396-2544

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Inventor: Steve Mattis Citizenship: USResidence: 5824 N. Dalespring Avenue Boise, ID 83713Post Office Address: Same as ResidenceInventor's Signature Date 8/9/00

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION (continued)**

ATTORNEY DOCKET NO. 10001761-1

Full Name of # 2 joint inventor: John Hall Citizenship: US

Residence: 2124 Ivy Street, Nampa, ID 83686

Post Office Address: Same as Residence

John Hall 8/10/2000
Inventor's Signature Date

Full Name of # 3 joint inventor: _____ Citizenship: _____

Residence: _____

Post Office Address: _____

Inventor's Signature Date

Full Name of # 4 joint inventor: _____ Citizenship: _____

Residence: _____

Post Office Address: _____

Inventor's Signature Date

Full Name of # 5 joint inventor: _____ Citizenship: _____

Residence: _____

Post Office Address: _____

Inventor's Signature Date

Full Name of # 6 joint inventor: _____ Citizenship: _____

Residence: _____

Post Office Address: _____

Inventor's Signature Date

Full Name of # 7 joint inventor: _____ Citizenship: _____

Residence: _____

Post Office Address: _____

Inventor's Signature Date

Full Name of # 8 joint inventor: _____ Citizenship: _____

Residence: _____

Post Office Address: _____

Inventor's Signature Date